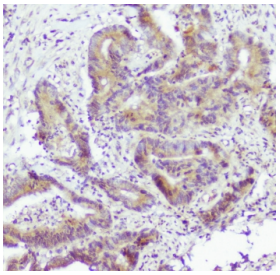
Caspase-2 Antibody (RQ4542)

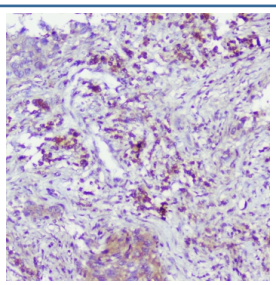
Catalog No.	Formulation	Size
RQ4542	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

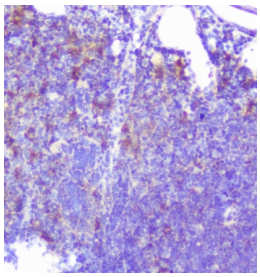
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P42575
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 1-2ug/ml Direct ELISA : 0.1-0.5ug/ml (recombinant human protein)
Limitations	This Caspase-2 antibody is available for research use only.



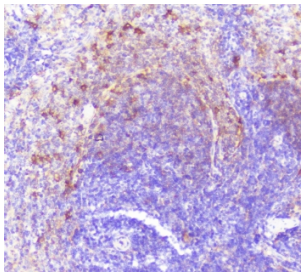
IHC staining of FFPE human colon cancer with Caspase-2 antibody at 0.5ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



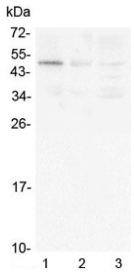
IHC staining of FFPE human lung cancer with Caspase-2 antibody at 0.5ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE mouse intestine with Caspase-2 antibody at 0.5ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



IHC staining of FFPE rat spleen with Caspase-2 antibody at 0.5ug/ml. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of human 1) PANC-1, 2) 22RV1 and 3) SGC-7901 cell lysate with Caspase-2 antibody at 0.5ug/ml. Predicted molecular weight: ~47 kDa (full), ~31 kDa (large+small subunit), ~20 kDa (large subunit).

Description

Caspase-2, which is involved in stress-induced apoptosis, is recruited into a large protein complex, the molecular composition of which remains elusive. activation of caspase-2 occurs in a complex that contains the death domain-containing protein PIDD, whose expression is induced by p53, and the adaptor protein RAIDD. Increased PIDD expression resulted in spontaneous activation of caspase-2 and sensitization to apoptosis by genotoxic stimuli. Caspase-2 acts both as a positive and negative cell death effector, depending upon cell lineage and stage of development.

Application Notes

Optimal dilution of the Caspase-2 antibody should be determined by the researcher.

Immunogen

Amino acids G170-T325 from the human protein were used as the immunogen for the Caspase-2 antibody. This sequence is from the large subunit.

Storage

After reconstitution, the Caspase-2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.